#### PATENT COOPERATION TREATY

### **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PHNL031031WO	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/IB2004/051465	International filing date (day/month/year) 17 August 2004 (17.08.2004)	Priority date (day/month/year) 04 September 2003 (04.09.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V.				

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).			
2.	This REPORT consists of a total	of 6 sheets, including this cover sheet.		
		nce to the written opinion of the International Searching Authority should be read as a reference eport on patentability (Chapter I) instead.		
3.	This report contains indications r	elating to the following items:		
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV Lack of unity of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited		
	Box No. VII Certain defects in the international application			
	Box No. VIII	Certain observations on the international application		
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).			

	Date of issuance of this report 06 March 2006 (06.03.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Idhir Britel
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Form PCT/IB/373 (January 2004)

### PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

NTERNATIONAL SEARCHING AUTRO	ווחכ	_		
То:		PCT		
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)		
		Date of mailing (day/month/year) se	ee form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER See paragraph 2 bel		
International application No.	International filing date (d	lay/month/year)	Priority date (day/month/year)	
PCT/IB2004/051465	17.08.2004		04.09.2003	

1. This opinion contains indications relating to the following items:

International Patent Classification (IPC) or both national classification and IPC

$\boxtimes$	Box No.	1	Basis	of the	opinion	

G11C29/00, G06F12/08, G06F12/10, G06F11/14

KONINKLIJKE PHILIPS ELECTRONICS N.V.

Applicant

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

9)

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer** 

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/051465

	Box N	o. I Basis of the opinion
1.	With re	gard to the <b>language</b> , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	laı	is opinion has been established on the basis of a translation from the original language into the following iguage , which is the language of a translation furnished for the purposes of international search inder Rules 12.3 and 23.1(b)).
2.	With re	gard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and eary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	at of material:
		in written format
		in computer readable form
	c. time	of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	h: Co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.
4.	Additio	onal comments:

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/051465

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_	Box	(No. II	Priority			
1.	.   The following document has not been furnished:					
		$\boxtimes$	copy of the earlier	r applicatio	n whose p	riority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the	earlier app	lication wh	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).
		Conse neverti	quently it has not b neless been establi	een possik ished on th	ole to cons ne assumpt	ider the validity of the priority claim. This opinion has tion that the relevant date is the claimed priority date.
2.		has be	oinion has been es en found invalid (R ate indicated above	lules 43 <i>bis</i>	.1 and 64.	rity had been claimed due to the fact that the priority claim  1). Thus for the purposes of this opinion, the international the relevant date.
3.		was no	ot available to the IS	SA at the ti	me that the	of the priority claim because a copy of the priority document e search was conducted (Rule 17.1). This opinion has tion that the relevant date is the claimed priority date.
4.	Add	litional c	bservations, if nec	essary:		
	Date	- N - W				
		No. V ustrial a	neasoned state applicability; citat	ions and	er Ruie 43 explanatio	Bbis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement
1.	Stat	ement				
	Nov	elty (N)		Yes: No:	Claims Claims	1,2,8
	Inve	ntive st	ep (IS)	Yes:	Claims	
				No:	Claims	3-7
	Indu	ıstrial ap	oplicability (IA)	Yes: No:	Claims Claims	1-8
2.	Cita	tions an	nd explanations			
	see	separa	te sheet			
	Вох	No. VII	Certain defects	in the int	ernationa	application

The following defects in the form or contents of the international application have been noted:

see separate sheet

### **RE SECTION V**

The following document is considered to be relevant:

D1: US-A-4 905 141 (BRENZA JAMES G) 27 February 1990 (1990-02-27)

From the document D1 there is known an integrated circuit (cf esp figs.1,13), comprising:

at least one processing unit (32);

a cache memory (34) having a plurality of memory modules (partitions 1,2 .., M) for caching data;

remapping means (702,..., 714) for performing an unrestricted remapping within said plurality of memory modules (cf also col.18, l.17-24 and l. 60-64, and claim 24).

When comparing this prior art with claim 1, it is noted that D1 anticipates all features of claim 1.

Hence, claim 1 does not meet the requirement of novelty.

- Independent claim 8 is the method counterpart to apparatus claim 1, and, thus, also does not meet the requirement of novelty.
- The features of the dependent claims are also known from D1 (claim 2) or suggested therefrom in combination with common general knowledge in the field of cache technology.
- 6. The above negative assessment is the result of a too general formulation of the claims which do not contain the particularity (cf p.5, l.30-31, and p.9, l.4-7) that the faulty modules are evenly distributed over the banks.

This particularity does not seem to be known or suggested from the available prior art.

### **RE SECTION VII**

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/051465

- The independent claims are not drafted in two part form with the closest prior art (D1) taken into account in the respective first parts.
- 2. The SUMMARY OF THE INVENTION reflects the present independent claims and therewith only known prior art (cf above SECTION V).
- 3. The introduction of the description does not acknowledge the relevant prior art as known from D1.